

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) An electrophotographic photoreceptor comprising:
a conductive substrate; and
a photosensitive layer on the conductive substrate for being exposed to coherent light,
wherein surface roughness of the conductive substrate caused by a cutting process is such
that maximum peak-to-valley roughness height (Ry), centerline average roughness (Ra), ten-
point average roughness (Rz) and average peak-to-peak distance that is an average of a peak-to-
peak distance of a cross-sectional curve (Sm) satisfy:

- (a) Ry = 0.8 to 1.4 μm ,
- (b) Ra = 0.10 to 0.15 μm ,
- (c) Rz = 0.7 to 1.3 μm , and
- (d) Sm = 5 to 30 μm , and

the peak count Pc satisfies:

- (e) Pc = 60 to 100.

2. (Currently amended) A method for producing an electrophotographic photoreceptor in
which a charge generating layer and a charge conveying layer, or an underlying layer, a charge
generating layer and a charge conveying layer, are formed on a conductive substrate by
sequentially coating, the method comprising:

preparing the conductive substrate so as to have a surface roughness caused by a cutting process so that for the surface roughness caused by the cutting process a in which maximum peak-to-valley roughness height (R_y), centerline average roughness (R_a), the ten-point average roughness (R_z) and average peak-to-peak distance that is an average of the peak-to-peak distance of a cross-sectional curve (S_m) satisfy:

- (a) $R_y = 0.8$ to $1.4\ \mu\text{m}$,
- (b) $R_a = 0.10$ to $0.15\ \mu\text{m}$,
- (c) $R_z = 0.7$ to $1.3\ \mu\text{m}$, and
- (d) $S_m = 5$ to $30\ \mu\text{m}$, and

peak count P_c satisfies:

- (e) $P_c = 60$ to 100 ;

sequentially measuring thicknesses of the layers by optical interferometry when the coating is performed to form the layers on the conductive substrate;

feeding back measurement results to controlling means; and

controlling an amount of coating by an output from the controlling means in accordance with the measurement results so as to adjust the thicknesses of the layers.

3. (Original) An image forming apparatus comprising: an electrophotographic photoreceptor of claim 1; and

an exposure apparatus for conducting image-exposure at a pixel density of 1200 dpi or more so as to form an electrostatic latent image on a surface of the electrophotographic photoreceptor.

4. (Original) The image forming apparatus of claim 3, wherein the exposure apparatus emits laser light having a wavelength of 780 nm.

5. (Previously Presented) The electrophotographic photoreceptor of claim 1, wherein the peak count P_c is obtained by counting the number of peaks which have a height equal to or more than a predetermined width from a top point to a bottom point in a reference length.

6. (Previously Presented) The image forming apparatus of claim 3, wherein the peak count P_c is obtained by counting the number of peaks which have a height equal to or more than a predetermined width from a top point to a bottom point in a reference length.